

UNITED STATES DESIRTMENT OF COMMERCE

Patent and Trademark Office

CHIN SHEEAMNER

Address: COMMISSIONER OE PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER

EILING DATE

FIRST NAMED APPLICANT

ATTORNEY DOCKET NO.

07/994.246

11/30/92

HENNEBERGER

2316.304US01

C5M1/1110

TIMOTHY R. CONRAD MERCHANT, GOULD, SMITH, EDELL, WELTER & SCHMIDT 3100 NORWEST CENTER MINNEAPOLIS, MN 55402

ART UNIT

PAPER NUMBER

3505

DATE MAILED:

NOTICE OF ALLOWABILITY

munication is recognized a mendment & Keled 10.21.9
impropriation is responsive to (IMENII) 18000 ECCC 1216
imunication is responsive to <u>OMENDMENT</u> Felled 10. 21. 9 claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) OLOSED in this application. If not included
(or previously mailed), a Notice OI Allowance And Issue Fee Due or other appropriate communication will be sent in dur
ved claims are 1, Own at 5-8
ved claims are / Syna 5- 5
rings filed on are acceptable.
edgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [_] been received. [_] not been
r[] been filed in parent application Serial No
attached Examiner Interview Summary Record, PTOL-413.
attached Examiner's Statement of Reasons for Allowance.
atlached NOTICE OF REFERENCES CITED, PTO-892.
attached INFORMATION DISCLOSURE CITATION, PTO-1449.
attacled IN CHARACTER DISCLOSURE CHARLON, FTC-1449.
STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS ATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application be may be obtained under the provisions of 37 CFR 1, 136(a).
attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oatt tion is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED
IT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE APER
APER
g informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No.
APER g informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. CORRECTION IS REQUIRED. possed drawing correction filed on
v vie e

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

- _ Examiner s Amendment
- _ Examiner Interview Summary Record PTOL- 413
- _ Reasons for Allowance
- _ Notice at References Cited, PTO-892
- _ Information Disclosure Citation, PTO-1449

- Notice of Informal Application. PTO-152
- Notice re Patent Drawings, PTO-948
- _ Listing of Bonded Draftsmen

BEST AVAILABLE COPY

PTOL-37 (REV. 4-89) *

USCOMM-DC 89-3789



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: Box ISSUE FEF

COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

C5M1/1110 -

TIMOTHY R. CONRAD MERCHANT, GOULD, SMITH, EDELL, WELTER & SCHMIDT 3100 NORWEST CENTER MINNEAPOLIS, MN 55402

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

☐ Note attached communication from the Examiner

☐ This notice is issued in view of applicant's communication filed

SERIES CODE/SERIAL NO.	FILING DATE	TOTAL CLAIMS EXAMINER AND GROUP ART L	INIT	DATE MAILED
	11/30/92	005 CHIN SHUE, A	3505	11/10/93
First Named Applicant HENNEBERGE	R,	ROY		11/10/33

INVENTION PTIC CABLE MANAGEMENT

	ATTY'S DOCKET NO.	CLASS-SUBCLASS BAT	CH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE	7
	2316.304US01	OC.O. 100	S40	UTILITY	NO	≢1170.00	02/10/94	

THE FEE DUE IS THE AMOUNT IN EFFECT AT THIS TIME. IF THE AMOUNT OF THE ISSUE FEE INCREASES PRIOR TO PAYMENT, APPLICANT WILL BE NOTIFIED OF THE BALANCE OF ISSUE FEE DUE.

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.

HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY Status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
 - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the patent and Trademark Office of the change in status, or
- B. If the Status is the same, pay the FEE DUE shown above.
- If the SMALL ENTITY is shown as NO:
- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, pay of 1/2 the FEE DUE shown above.
- II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, Part C of this notice should also be completed and returned.
- III. All communications regarding this application must give series code (or filing date) and serial number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to contrary.

IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

TOL-85 (REV.7-92) (OMB Clearance is pending) PATENT AND TRADEMARK OFFICE COPY

INSTRUCTIONS: This form should be used for transmitting correspondence including the Issue Fee Receipt, the Pater Intered in Block 1 unless you direct otherwise, by: (a) specifying a neffee ADDRESS for maintenance fee notifications with the payment	nt, advances order	Blocks 2 through 6 should be completed where appropriate. It is and notification of maintenance fees will be mailed to addressee address in Block below; or (b) providing the PTO with a separate
1. CORRESPONDENCE ADDRESS		2. INVENTOR(S) ADDRESS CHANGE (Complete only if there is a change)
		INVENTOR'S NAME
	V V	Street Address
* + 1.7	5141 / 1115	City, Slate and ZIP Code
TIMOTHY R. CONNED		CO INVENTOR'S NAME
MERCHANT, GOOLD, SMITH, EDELL	100	CO-INVENTOR'S NAME
HOLLIER A SCHMIDT OLON NORWEST CENTER		Street Address
MINNEAPOLIS, MN 52402	\mathcal{M}	City State and ZIP Code
	1/1-	
* * * * * * * * * * * * * * * * * * * *	. / .	Check if additional changes are on reverse side
		EXAMINER AND GROUP ART UNIT DATE MAILED
SERIES CODE/SERIAL NO. FILING DATE TOTAL		A Comment of the Comm
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AL WELL	*** · · · · · · · · · · · · · · · · · ·
First Named Applicant PENNETEFICIER.	313A	36 El X
ATTY'S DOCKET NO: CLASS-SUBCLASS BAT		N. TYPE SMALL'ENTITY FEE DUE DATE DUE THE TY NO \$1170.00 02/10/94
	-1" * '	
. Correspondence address change (Complete only it there is a change)	4. Fc	or printing on the patent tront a, list the names of not more than 1 Merchart, Goould,
	3 reg	gistered patent attorneys or
	. agen	nts OR alternatively, the name of a having as a member a registered 25mith, Edell, Welter
BEST AVAILABLE COPY	attor	ney or agent. If no name is
BEOI MANUEL COL	listec	d, no nane will be printed. 3 \(\begin{align*} \begin{align*} \begin{align*} 3 \(\begin{align*} align
	DO NOT USE THIS	SPACE
120 WP 03/04/94 07984246 (1 142	1,170.00 CK
120 WP 03/04/94 07984246 /	1 561	30.00 CK
5. ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type)	1 505	AND TARGET AND AND THE STREET AND ADDRESS OF THE STREET, AND ADDRESS OF THE STREET, AND ADDRESS OF THE STREET,
(1) NAME OF ASSIGNEE:	02	6a. The tollowing tees are enclosed:
ADC Telecommunications, Inc. ADDRESS (CITY & STATE OR COUNTY) MONNEY COULS MICHIESTA USP	1 - 1	Sussue Fee Advanced Order # ot Copies (Minimum of 10)
(3) STATE OF INCORPORATION, IE ASSIGNEELS A CORPORATION	· · · · · · · · · · · · · · · · · · ·	DEPOSIT ACCOUNT NUMBER
Minnesota		(ENCLOSED PART C) ☐ Issue Fee ☐ Advanced Order - # ot Copies
A. This application is NOT assigned. X Assignment is being previously submitted to the Patent and Trademark	☐ Any Deficiencies in Enclosed Fees (Minimum of 10	
XAssignment is being submitted under separate cover. Assignments sho	The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee to the application identified above.	
directed to Box ASSIGNMENTS. PLEASE NOTE: Unless an assignee is identified in Block 5, no assign	on the (Signature of party in Interest of record) (Dale)	
patent.nclusion of assignee data is only appropriate when an assignme submitted to the PTO or is being submitted under separate cover. Com	S NOT 2/8/	
a substitute for tilling an assignment.	-	NOTE/The Issue Eee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in Interest as shown by the
		records of the Palent and Trademark Office.

Certificate of Mailing

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Box ISSUE FEE
Commissioner of Patents and Trademarks
Washington, D.C. 20231

GL FEB 17 PM 5: 37

on February 8, 1994	
(Date)	
)	
(Signature)	
Timothy R. Convad	, l
(Typed or Printed Name)	
February 8, 1994	<u>, </u>
(Date)	

Note: If this certificate of mailing is used, it can only be used to transmit the Issue Fee. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

This form is estimated to take 20 minutes to Complete. Time will vary depending upon the needs of the individual applicant. Any comments on the amount of time you require to complete this form should be sent to the Office of Management and Organization, Patent and Trademark Office, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

-2**-**

Art Unit: 3505

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

Authorization for this Examiner's Amendment was given in a telephone interview with Mr. Conrad on 11.9.93.

- 2. The application has been amended as follows:

 In claim 1 line 12, " wall means " has been changed to --elements --- .
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin Chin-Shue whose telephone number is (703) 308-2168.

acs November 9, 1993

> ALVIN C. CHIN-SHUE PRIMARY EXAMINER ART UNIT 355